

# SYG-1212 MARINE GREASE

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## Product Description

SYG-1212 Marine Grease is a premium, extreme pressure, multi-purpose, heavy duty OBCS grease containing unique polymers, anti-wear agents and tackifiers with inherent rust and oxidation resistance to provide the highest performance properties.

SYG-1212 Lubrication of open tooting, friction and rolling bearings, threaded spindles, hinges, guides on windlasses, ship's cranes, underwater devices, offshore components or in wet areas of the textile industry. Corrosion protection of moving parts subject to seawater in coastal and marine areas or constant influence of water for water and channel structures.

## Applications

For best results clean the lubricating point carefully. Remove the corrosion protection ahead of the initial filling. Fill the bearings in a way that all the functional surfaces for sure get the grease. Slow moving bearings (DN-value < 50.000) should be filled completely, normal moving bearings should be filled to 1/3 of the free inner housing space. Observe the instructions of the bearing or machine manufacturer. Relubrication with a grease gun on to the grease nipples or with an automatic lubrication system. Relubrication intervals and amount to be defined acc. to the service conditions. If the removal of the old grease is not possible the amount of grease has to be limited to avoid excess lubrication of the bearing. At longer relubrication intervals a complete exchange of the old grease is recommended. Only mix with appropriate lubricants. For additional questions please contact our Technical Department.

## Benefits

- Excellently suited as waterproof special grease above and under water.
- Highly effective due to optimum wear and outstanding corrosion protection.
- Provides rust and corrosion protection in both fresh water and salt water environments.
- Economical due to combined protective effect.
- It has been designed to lubricate under the most severe operating conditions in marine applications and because of its adhesive properties, it effectively stays in place.

## Typical Properties

SYG-1212	Test Method	
Base Oil		Mineral oil
Color		Yellow/Brown
Density		0.90
Base Oil Kinematic Viscosity @40 <sup>o</sup> C, cSt @100 <sup>o</sup> C, cSt	ASTM D-445	100 9
Worked Penetration @250°C, (60x)	ASTM D-217	285-315
Drop Point, °C (min)	ASTM D 566	>112
Water resistance		0-40
DN value	Mm/min	350.000
4-Ball Extreme Pressure Test, Weld Point, kgf,	ASTM D-2596	3000
SKF-EMCOR		0 and 1
Working Temperature Range °C		-15to 75

**Available Packs: 18 and 180 Kg**

**Shelf Life – 36 Months from the Manufacturing month.**

\* All related specifications are meets or exceeds.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product** SYG-1212 MARINE GREASE  
**Supplier** PETRELPLUS INC.

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## 2. COMPOSITION

Composition of high-performance-base oil and Proprietary additives.

## 3. HAZARDS IDENTIFICATION

Not classified as Hazardous.

## 4. FIRST-AID MEASURES

**RESPIRATORY SYSTEM:** Remove to fresh air and get medical attention.

**INGESTION:** Do not induce vomiting. Wash mouth out with water and obtain medical attention.

**EYES:** Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.

**SKIN:** Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

## 5. FIRE-FIGHTING METHODS

Foam, carbon dioxide or dry powder.

## 6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

## 7. STORAGE AND HANDLING

Handling - At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

Storage - Store in delivery packs in a cool & dry place.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure Standard:

The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

### PERSONAL PROTECTION

Respiratory Protection:

Type of Cartridge (if Applicable): Eye Protection: Safety Spectacles

Hand Protection: Gloves butyl or nitrile rubber

Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well-ventilated area.

Use exhaust ventilation if exposure to flume or aerosol can occur.

### PROTECTION AGAINST FIRE AND EXPLOSION

Combustible but not readily ignited. No explosion hazard.

EC SAFETY PHRASES: Not classified as hazardous.

## 9. TYPICAL PROPERTIES

Color - Yellow-Brown  
Drop Point, °C - (>112)  
Density at 20°C, g/ml - 0.90  
Worked Penetration @250°C,(60x) - 285-315

## 10. STABILITY AND REACTIVITY

### HAZARDOUS REACTIONS

#### Comments

HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition produces noxious fumes.

## 11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral Toxicity: > 5000:mg/Kg:Rat

LC50 Acute Inhalation: :mg/1

Eye Irritation: No: Rabbit

Skin Irritation: No.: Rabbit

Sensation: No

Further Information:

## 12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1

EC50 (24 Hour): mg/1

Biodegradability (Coupled units):

## 13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

## 14. TRANSPORT INFORMATION

IMDG No.: Not classified

Packing Groups: IATA-DGR Class No.: Not classified

TREMCARD: Not classified

RID/ADR Class No.: Not classified

Other Information

## 15. REGULATORY INFORMATION

Classification and labeling according to EC Directives 67/548

Not classified as hazardous. EC Risk Phrases

Not classified as hazardous. Other Hazardous

EC Safety Phrases

Not classified as hazardous

## 16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: - Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.

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